



REBUILD MASSACHUSETTS

A MASSACHUSETTS DIVISION OF ENERGY RESOURCES REBUILD AMERICA PROGRAM
Sponsored by the United States Department of Energy

Volume VIII
August 2006

IN THIS ISSUE

ENERGY SMART COMMUNITIES NETWORK

NATIONAL ENERGY EDUCATION YOUTH AWARDS

LOCAL COMMUNITY GOALS TO SAVE ENERGY

SAVE ENERGY NOW

A MASSACHUSETTS DIVISION OF
ENERGY RESOURCES REBUILD
AMERICA PROGRAM

Sponsored by the United States
Department of Energy



Rebuild Massachusetts [Energy Smart Communities Network](#) is an opportunity for municipalities to face the challenge of saving energy and water. The goal for this project is to advance state and community energy-savings efforts by fostering connections between cities and towns, disseminating information, and facilitating discussions focused on energy efficiency projects.

ENERGY SMART COMMUNITIES NETWORK

Build support – Establish allies

- **Build Collaborations** - provides a central location for Energy Smart Community contact information and energy efficiency activities around the state;
- **Increase Energy and Environmental Awareness** - provides energy and water efficiency education to consumers;
- **Provide Tools and Training** - increases the capacity of communities in the knowledge of energy-efficient projects that support energy management;
- **Disseminate Community Energy Planning Resources** - promotes a “systems” approach to planning and development that reduces energy intensity, waste, and environmental degradation throughout the community.

DOER will coordinate and update a list of contacts for the [Energy Smart Directory](#). The Directory will bring together communities and individuals seeking sustainable energy solutions with their peers in other cities and towns. If there is something particular you are looking for, or if you are just interested in what other communities have done, this directory will be able to assist you.

Click [here](#) for more information about joining the Energy Smart Community Network.



NATIONAL ENERGY EDUCATION YOUTH AWARDS

On June 14, 2006, participants in the National Energy Education Project from Massachusetts were honored at an award ceremony that took place at the Barnstable County Courthouse. Barnstable County Commissioner, Mary LeClair, and Eileen McHugh of DOER handed out certificates to the fifty-two participating students. ConEdison Solutions provided Ben & Jerry's ice cream after the ceremony.



Energy Education Youth Awards
Barnstable County Courthouse

Following is a synopsis of their projects.

- The Eastham Elementary School ***“Energy to Go”*** program created an informational energy education exposition of demonstrations, experiments, and activities taken to schools and senior centers. The program also started and maintained a recycling program for the entire school.
- The Bourne Middle School ***“Energy Savers”*** educated their community about energy awareness through demonstrations, an energy poll, an interactive quiz, and a pledge to change one incandescent light bulb to a compact fluorescent.
- The ***“Solar Sisters”*** from Chilmark Elementary investigated a community solar system by collecting, analyzing, and evaluating solar data from panels located at the local community center. They provided an analysis of the type of weather that would produce the most electricity.

LOCAL COMMUNITY GOALS

Partner: Newton
Date Joined: March 8, 2006



Partnership Summary: Rebuild Massachusetts has been working with the Newton Public School Department to provide technical assistance in tracking energy usage. The initial vision of this project is to use the data to develop an energy efficiency plan for Newton schools.

Newton's focus is to work with the utility companies and the City's Energy Commission to discuss opportunities for energy performance contracting for energy-related capital purchases in City-owned buildings.

The Newton Schools Operation Department is targeting twenty-two school buildings to develop a methodology for tracking energy usage. Energy audits of all elementary and middle school buildings will provide the data necessary to develop a plan for improving performance of equipment

The Newton Public Buildings Department will assist with the process of obtaining energy audits of selected buildings and coordinate with the Newton Energy Commission. Local priorities include reducing energy costs and improving the environment in school buildings.

For more information about Newton's efforts and to read their energy action plan, please go to <http://www.ci.newton.ma.us/main.htm>

Partner: Cambridge
Date Joined:
February 10, 2006



Partnership Summary: In 2003, the City of Cambridge created an interdepartmental task force to identify and initiate energy efficiency improvements within City facilities.

Activities included educating departments on utility efficiency programs, developing an EnergyStar purchasing policy, training facility staff on premium efficiency motors, and completing engineering studies of several City buildings. Cambridge implemented lighting upgrades in various parking garages, libraries and other buildings, and plans several HVAC upgrades.

One of the things the City recognizes is a critical need for data collection and reporting to manage energy – rapidly rising fuel prices underscore the need to better understand and manage energy consumption.

The initial focus of the Partnership is to work with Rebuild Massachusetts and the Rebuild Massachusetts Energy Information System (EIS) to implement a City of Cambridge EIS. This will:

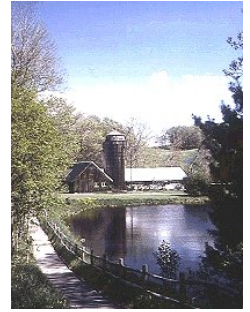
- Collect monthly consumption data electronically from NSTAR.
- Quantify the City's total energy consumption and expenditures (electricity, gas, heating oil).
- Track and report on consumption patterns by department, facility, and building use.
- Develop user-friendly, easy-to-read reports and charts for regular distribution to City officials and facility managers.
- Use the reporting information to identify and prioritize facilities for energy efficiency improvements.

One of the key aspects of the EIS for the City is the ability to import energy data electronically from utility companies. This will eliminate a significant amount of time City departments spend entering data and will enable the City to focus on analysis and management. Work will include all municipal buildings, including offices, schools, libraries, fire stations, recreational buildings, youth centers, and others.

The intent is to support the City's climate protection goals of reducing greenhouse gas emissions by 20% below 1990 levels by the year 2010. The actual savings required to meet this target will vary from building to building. The City is using the Energy Information System to compare its buildings with national and regional benchmarks to set appropriate reduction targets.

Partner: Lincoln

Date Joined: February 2, 2006



Partnership Summary: The vision of the Lincoln Planning Board is to use the Rebuild Lincoln initiative to develop effective energy management best practices for the Town.

Energy and Water efficiency investments will help the Town meet both financial and environmental priorities and to address recent, and future, utility cost increases. The town will target all municipal facilities.

The initial focus of the Partnership is to quantify and monitor the energy and water consumption for all the Town facilities in order to document high priority facilities and ongoing energy and water consumption trends. Lincoln's Planning Board will be the lead Town contact for the Partnership and will pull in additional town staff and government resources as appropriate.

The long-term goal for the Lincoln Energy Efficiency Initiative is to raise the energy performance of Town facilities to meet EnergyStar (top 25%) building performance criteria. The actual percent savings required to meet this target will vary significantly from building to building.

With recent utility price increases, the energy efficiency-related building improvements will fit in well with local priorities. In addition, two of Lincoln's largest facilities – the elementary school and the library have recently completed capital needs studies to identify large-scale energy-related investment priorities.

Work on the Partnership tasks has already begun with the collection of utility bills and building square footage for the Town's facilities. In addition, the school department initiated a light fixture relamping project during the summer of 2004.

To learn more about Lincoln activities, please go to <http://www.lincoln-ma.com/>

U.S. DEPARTMENT OF ENERGY

ENERGY EFFICIENCY & RENEWABLE ENERGY

INFORMATION CENTER

The [EERE Information Center](#) answers questions on EERE's products, services, and 11 technology programs, refers callers to the most appropriate EERE resources, and refers qualified callers to the appropriate expert networks.

Technical and programmatic information for the residential, commercial, institutional, industrial and transportation sectors is also immediately available through the EERE Web site.

Other ways to find the information you need include:

- Visiting the EERE Online Catalog
- Visiting the A Consumer Guide to Energy Efficiency and Renewable Energy Web Site
- Searching EERE's Web site for online resources
- Reviewing EERE's Industrial Information, Tools, and Publications

You may contact the EERE Information Center with questions on EERE's products, services, and 11 technology programs by calling 1-877-EERE-INF (1-877-337-3463) or by completing and submitting the online form. A customer service specialist or energy expert at the EERE Information Center will respond to your inquiry.

One of the many things you can find at this site is the Save Energy Now CD. DOE has distributed CD-ROMs with energy-saving information and software to 3,500 industrial plant managers in large plants (identified as some of the most energy-intensive plants in the United States) to help them cut energy use and costs. The Save Energy Now CDs contain tip sheets, case studies, software, and guidance on energy management and plant assessment that help identify opportunities to save energy.

Source: U.S. Department of Energy



Rebuild Massachusetts

c/o The Commonwealth of Massachusetts, Division of Energy Resources
Attention: Eileen McHugh
100 Cambridge Street, Suite 1020
Boston, Massachusetts 02114

T: (617) 727-4732

F: (617) 727-0030

W: www.mass.gov/doer